

LARSEN LOW PROFILE ANTENNAS

Low Profile Antennas - Mirage

Larsen offers a wide variety of low profile antennas with either NMO or direct feed mounting for any application.

Our line of NMO mount antennas come in two styles. The LP VHF antennas are 3 3/4" high and 4 1/2" in diameter. The UHF and 800/900 antennas are just 1 1/2" high and 4 1/2" in diameter. In addition, these antennas offer true unity (2 dBi) performance and are ground plane dependent. They are as easy to install and remove as any standard mobile antenna - clean and simple.

The radiators are housed in a durable, Makroblend™ resin polymer plastic shell, resistant to UV and chemical deterioration. A special neoprene foam gasket provides for a weatherproof installation, not only around the perimeter of the antenna, but directly at the point of the mount as well.

Our direct feed, permanent mount low profile antennas offer a unique design of the base plate providing ground plane enhancement for improved performance. Featuring printed circuit technology and a UV and chemical resistant Makroblend™ resin polymer housing, the direct feed is available in UHF and 800/900 MHz frequencies. It is ideal for security sensitive applications requiring a discreet profile and permanent mounting.

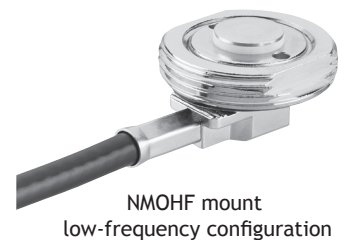
Low Profile Transit Style Antennas - Shadow

Larsen offers a family of transit-style antennas for both low- and high-frequency applications. Low frequencies include UHF, 700/800, and 800/900 applications and high frequencies models cover 2.4-2.5 GHz. Larsen also offers a multi-band LPT, the LPT825/19NMOHF, which is a unique design covering 800/Cellular/GSM/DCS/PCS and 2.4 GHz frequency bands all in one compact radome.

For optimal high-frequency matching, the high-frequency and multi-band antennas are designed with an industry-unique coax-type connection which plugs into the Larsen NMOHF mount in its high-frequency configuration (i.e. center pin and insulator pulled out). The LPT2400 may be used with or without a groundplane. The 700/800, 800/900 models are available in either a NMO or bulkhead style mount. All LPT's are available in black or white.

Radome shells are made of Makroblend™, an advanced resin polymer plastic, resistant to chemical and UV deterioration which surpasses both Lexan and PVC products.

All LPT antennas are shipped with Larsen's SuperSeal gasket. With an integrated O-ring and an outer base seal, SuperSeal gaskets provide a dual seal between the vehicle and the antenna, thus reducing rust and corrosion from leaks. The base sealing surface is over 1/4" wide, providing a superior seal designed to conform to vehicle surface curvatures.



NMO MOUNT LOW PROFILE VHF ANTENNAS

MODEL	LP152NMO(W)	LP154NMO(W)	LP156NMO(W)	LP158NMO(W)	LP160NMO(W)	LP162NMO(W)
FREQUENCY (MHz)	151.02-152.98	152.96-155.04	154.42-156.58	156.38-158.62	158.33-160.67	160.29-162.71
BANDWIDTH@1.5:1	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
BANDWIDTH @2:1	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	60 WATTS	60 WATTS	60 WATTS	60 WATTS	60 WATTS	60 WATTS
MOUNTING	NMO	NMO	NMO	NMO	NMO	NMO
HEIGHT	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
DIAMETER	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"

NMO MOUNT LOW PROFILE VHF ANTENNAS (CONTINUED)

MODEL	LP164NMO(W)	LP167NMO(W)	LP169NMO(W)	LP171NMO(W)	LP174NMO(W)
FREQUENCY (MHz)	162.75-165.25	165.21-167.79	167.68-170.32	170.16-172.84	172.14-174.86
BANDWIDTH@1.5:1	1.5%	1.5%	1.5%	1.5%	1.5%
BANDWIDTH @2:1	2.5%	2.5%	2.5%	2.5%	2.5%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	60 WATTS	60 WATTS	60 WATTS	60 WATTS	60 WATTS
MOUNTING	NMO	NMO	NMO	NMO	NMO
HEIGHT	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
DIAMETER	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"



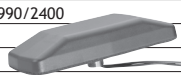
NMO MOUNT LOW PROFILE UHF ANTENNAS

MODEL	LP406NMO(W)	LP420NMO(W)	LP430NMO(W)	LP450NMO(W)	LP470NMO(W)	LP490NMO(W)	LP800NMO(W)
FREQUENCY (MHz)	406-420	416-430	430-450	450-470	470-490	490-512	806-960
BANDWIDTH@1.5:1	12%	12%	12%	12%	12%	12%	8.5%
BANDWIDTH @2:1	20%	20%	20%	20%	20%	20%	10%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS
MOUNTING	NMO	NMO	NMO	NMO	NMO	NMO	NMO
HEIGHT	1 1/2"	1 1/2"	1 1/2"	1 1/4"	1 1/2"	1 1/2"	1 1/2"
DIAMETER	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"



DIRECT FEED LOW PROFILE ANTENNAS

MODEL	LP450 (W)	LP800 (W)	LP800/19/2400	LP800/19/2400	LPT700/800(W)	LPT800/900(W)
FREQUENCY (MHz)	450-470	806-960	824-960/1710-1990/2400	824-960/1710-1990/2400	740-866	806-960
BANDWIDTH@1.5:1	12%	90%	160%	160%	8.5%	8.5%
BANDWIDTH @2:1	20%	160%	160%	160%	10%	10%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	0 dBd/0 dBd/0 dBd	0 dBd/0 dBd/0 dBd	1 dBd/2 dBi	1 dBd/2 dBi
MAX POWER	100 WATTS	100 WATTS	100 WATTS	100 WATTS	60 WATTS	60 WATTS
MOUNTING	DIRECT FEED 1/2" HOLE	DIRECT FEED 1/2" HOLE	DIRECT FEED 3/4" HOLE	DIRECT FEED 3/4" HOLE	DIR FEED 3/4" HOLE	DIR FEED 3/4" HOLE
HEIGHT	1 1/4"	1 1/4"	1 1/3"	1 1/3"	3 1/2"	3 1/2"
DIAMETER	5 1/4"	5 1/4"	LENGTH 7.6"	LENGTH 7.6"	1 1/2"	1 1/2"



NMO MOUNT TRANSIT STYLE ANTENNAS

MODEL	LPT406NMO(W)	LPT415NMO(W)	LPT430NMO(W)	LPT435NMO(W)	LPT450NMO(W)	LPT470NMO(W)	LPT490NMO(W)
FREQUENCY (MHz)	406-420	415-430	430-445	435-450	450-470	470-490	490-512
BANDWIDTH @1.5:1	3%	3%	3%	3%	3%	3%	3%
BANDWIDTH @2:1	5%	5%	5%	5%	5%	5%	5%
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)	UNITY (2 dBi)
MAX POWER	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS	100 WATTS
MOUNTING	NMO	NMO	NMO	NMO	NMO	NMO	NMO
HEIGHT	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	3 1/2"
BASE DIAMETER	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

NMO MOUNT TRANSIT STYLE ANTENNAS (CONTINUED)

MODEL	LPT700/800NMO(W)	LPT800/900NMO(W)	LPT825/19NMOHF(W)	LPT2400NMOHF(W)
FREQUENCY (MHz)	740-866	806-960	806-960/1710-1990/2400	2400-2500
BANDWIDTH @1.5:1	8.5%	8.5%	N/A	N/A
BANDWIDTH @2:1	10%	10%	N/A	N/A
GAIN	UNITY (2 dBi)	UNITY (2 dBi)	3 dBi/4 dBi	5 dBi with groundplane / 3 dBi without ground plane
MAX POWER	100 WATTS	100 WATTS	10 WATTS	10 WATTS
MOUNTING	NMO	NMO	NMO	NMO
HEIGHT	3 1/2"	3 1/2"	3 1/2"	3 1/2"
BASE DIAMETER	1 1/2"	1 1/2"	1 1/2"	1 1/2"



NOTE: Low Profile antennas are available in white UV and chemical resistant Makroblend. To order white add a "W" to the end of the model number.



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